

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Chang, et al. Attorney Docket: TSM-476RI  
Patent No.: 6,346,476 B1 Patent Issued: 02/12/2002  
Reissue Filed: Herewith  
Title: Method for Enhancing Line-to-Line Capacitance Uniformity of Plasma  
Enhanced Chemical Vapor Deposited (PECVD) Inter-Metal Dielectric (IMD)  
Layers

Mail Stop Reissue  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND POWER OF ATTORNEY FOR APPLICATION  
FOR REISSUE OF U.S. PATENT NO. 6,346,476**

Dear Sir:

As a below-named inventor, I hereby declare that:

Pursuant to the requirements of 37 C.F.R. §1.63(a)(3), my residence and country of citizenship are provided below next to my name.

I hereby state that I and the other inventors signing below are the original, first and joint inventors of the subject matter which is described and claimed in U.S. Patent 6,346,476, and of the subject matter which is claimed in the application for reissue of U.S. Patent 6,346,476, which application is attached hereto.

I hereby state that I have reviewed and understand the contents of the specification, including the claims, as included with this application for reissue.

Pursuant to the requirements of 37 C.F.R. §1.175(a)(1), I believe that U.S. Patent No. 6,346,476 is wholly or partly inoperative by reason of the patentee claiming less than I had a right to claim in the patent.

At Least One Error under 35 U.S.C. §251 as to the Scope of the Original Claims being Relied on as the Basis for Reissue.

The error involves the failure to claim the invention as broadly as I am entitled. One such error involves the un-necessary limitation in the claims of "so that there is enhanced a line-to-line capacitance uniformity of the patterned conductive layer," as per issued claims 1 and 14. This limitation is not necessary to the invention or to distinguish over the prior art and results in a narrower claim scope than to which I am entitled. Other errors exist as well which I seek to correct through reissue.

Pursuant to requirements of 37 C.F.R. §1.175(a)(2), I state that all errors being corrected in the reissue application up to the time of filing this Declaration arose without any deceptive intention on the part of the Applicants.

Pursuant to requirements of 37 C.F.R. §1.63(b)(3), I acknowledge the duty to disclose to the Office all information known to Applicants to be material to patentability as defined in 37 C.F.R. §1.56.

Pursuant to requirements of 37 C.F.R. §1.68, I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

I hereby appoint the following individuals as my representatives with full power of substitution and revocation to prosecute a Reissue application upon U.S. Patent No. 6,346,476

and to transact all business in the United States Patent and Trademark Office connected therewith:

Steven H. Slater, Reg. No. 35,361

Ira S. Matsil, Reg. No. 35,272

Brian A. Carlson, Reg. No. 37,793

James C. Kesterson, Reg. No. 25,882

Kay Houston, Reg. No. 38,495

Barry W. Dove, Reg. No. 45,862

Glenn W. Boisbrun, Reg. No. 39,615

Roger C. Knapp, Reg. No. 46,836

**Full name of first inventor:** Weng Chang

**Inventor's Signature:** \_\_\_\_\_

**Date:** Feb 05, 2004

**Residence:** No. 16-3, LN42, Yu-Chen Street, Taipei, Taiwan

**Citizenship:** Taiwan, R.O.C.

**Post Office Address:** No. 16-3, LN42, Yu-Chen Street, Taipei, Taiwan

**Full name of second inventor:** Syun-Ming Jang

**Inventor's Signature:** \_\_\_\_\_

**Date:** 2/5/2004

**Residence:** 7 F, 83 N. Kuan-Hua St., Hsin-Chu, Taiwan

**Citizenship:** Taiwan, R.O.C.

**Post Office Address:** 7 F, 83 N. Kuan-Hua St., Hsin-Chu, Taiwan

Please type a plus sign (=) inside this box → ☐

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>POWER OF ATTORNEY OR AUTHORIZATION OF AGENT</b>	<b>Application Number</b>	Reissue of 6,346,476B1
	<b>Filing Date</b>	Herewith
	<b>First Named Inventor</b>	Chang, et al.
	<b>Title</b>	Method for Enhancing Line-to-Line Capacitance Uniformity of Plasma Enhanced Chemical Vapor Deposited (PECVD) Inter-Metal Dielectric (IMD) Layers
	<b>Group Art Unit</b>	TBD
	<b>Examiner Name</b>	TBD
	<b>Attorney Docket Number</b>	TSM-476RI

I hereby appoint:

☒ Practitioners at Customer Number

25962



OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number



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Label here

☐ Firm or  
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I am the:

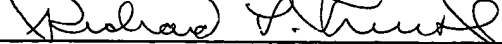
☐ Applicant/Inventor

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name Richard L. Thurston, Vice President and General Counsel

Signature 

Date 5 February 2004

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☒ \*Total of 1 form is submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents. Washington, DC 20231.

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Chang, et al.

Application No./Patent No.: 6,346,476 B1 Filed/Issued Date: February 12, 2002

Entitled: Method for Enhancing Line-to-Line Capacitance Uniformity of Plasma Enhanced Chemical Vapor Deposited (PECVD) Inter-Metal Dielectric (IMD) Layers

Taiwan Semiconductor Manufacturing Company, Ltd., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel/Frame 01028 / 0233, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
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☐ Additional documents in the chain of title are listed on a supplemental sheet.

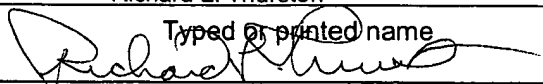
- ☐ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

5 February 2004  
Date

Richard L. Thurston

Typed or printed name



Signature

Vice-President and General Counsel

Title